

OMNI SERIES

DIRECT TO TEXTILE PRINTER WITH CBS





Introduction to DGI

Since 1985, DGI has been a prominent presence in the global digital printing industry, steadily growing over the year. To generate higher and more sustainable customer value, we will persistently stay the course, unwavering in our pursuit of excellence in engineering, development, and sales.



~1997

Cutting Plotter
Pen Plotter
Drafting Machine
Parallel Ruler

~2000

Sign & Grphics
Printer

~2010

Dye Sublimation
Printer

~2015

Direct Textile
Printer

~2019

Food Printer

~2022

Package Printer

~2023

Acquire



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Over 100 Countries

DGI has been expanding its presence to approximately 80 countries. As of last year, the service was being operated in various countries, including Italy, the UK, Saudi Arabia, and the US. Now, more than 3,600 companies are estimated to have been using it.

DGI HEADQUARTERS

52, Cheongdam-Ro, Yangju-si, Gyeonggi-do,
Korea
TEL +82-31-820-8900

DGI GROBAL SALES OFFICE

11F, Simon Tower, 15 Teheran-ro 84-gil,
Gangnam-gu, Seoul
TEL +82-2-820-8900

DGI Europe

Via Giuseppe Garibaldi, 151, 20833 Giussano MB, Italy
TEL +39-340-38-70-459

DGI USA

27 Spectrum Pointe Drive, Suites 311 and 312,
Lake Forest, CA, USA
TEL +1-949-942-1885

DGI CHINA

Outlets130-104, Hengdayulanguoji, No.702 Shanhe Road, Chengyang District,
Qingdao City, Shandong Province, CHINA
TEL +86-187-6390-1188

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Direct textile printer sales performance

DGI's direct textile printers have achieved remarkable success in 2017~2024, recording high sales volume.



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DGI's direct textile printers offer unmatched reliability and cutting-edge technology



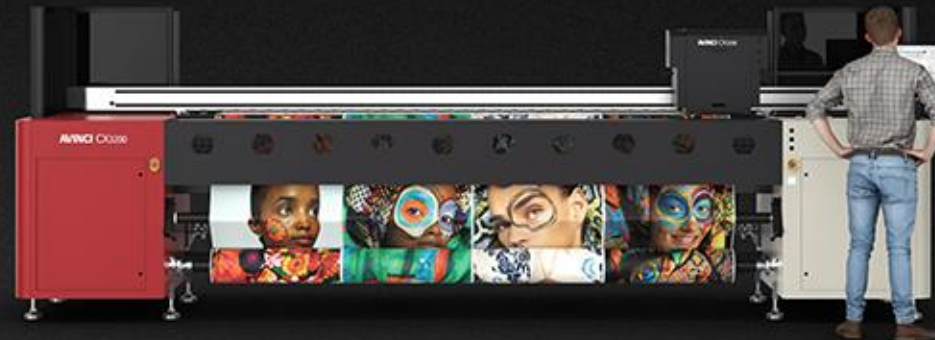
KONICA MINOLTA

Nassenger Pro 60 : 60 sets
Nassenger Pro 120 : 150 sets



AGFA 

AVINCI DX3200 : 24 sets
AVINCI CX3200 : 52 sets



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DIRECT TO TEXTILE PRINTER WITH CBS

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1. What is CBS ?

Color Booster Solution (CBS) is an acronym and is a colorless and odorless solution.

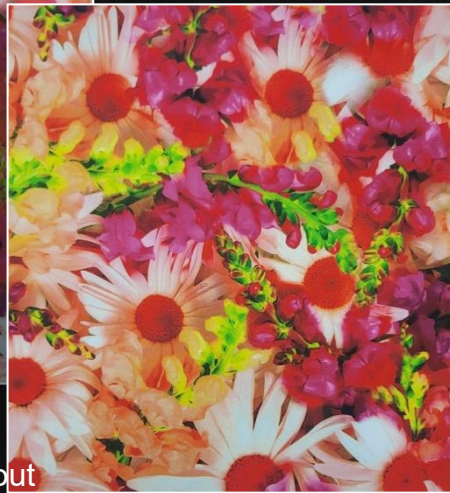
It replaces conventional pre-treatments and is injected into inkjet heads to be printed on fabric together with color ink.

The principle is that CBS and Pigment ink printed from the head onto the fabric react immediately, condensing and coagulating, which helps to improve color development and fastness.



Sample A)

None coated fabric without
CBS



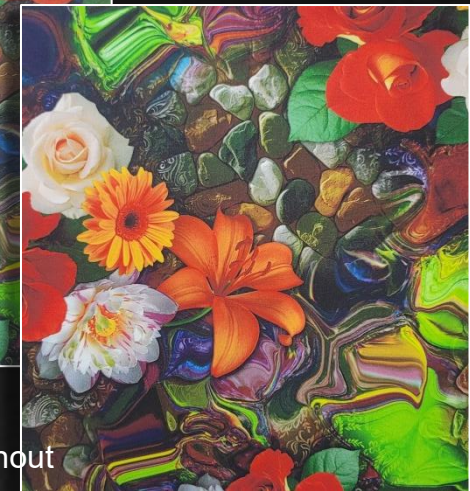
Sample B)

None coated fabric with CBS



Sample A)

None coated fabric without
CBS



Sample B)

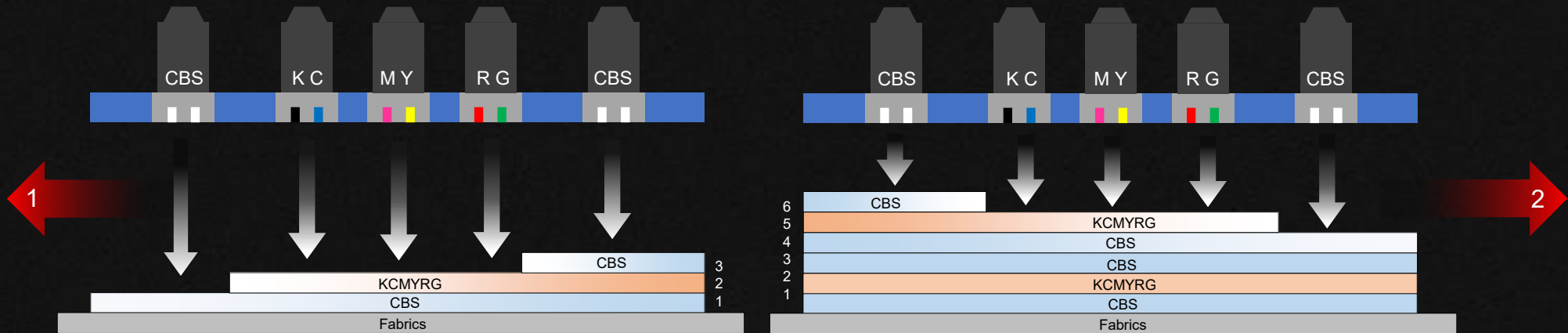
None coated fabric with CBS

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2. Printing principle of CBS

- The CBS solution is first printed onto the fabric from both heads to create a coating, followed by the pigment ink, resulting in a layered structure as shown in the figure below.



- A specified amount of CBS solution can be printed, but only in areas where the image is not white. This reduces unnecessary CBS solution usage and increases print speed. However, any area with even 1% of ink will receive the designated amount of CBS solution.



Image A)
CBS solution
cannot be printed
on a white
background



Image B)
Even if there is only
1% ink in an image, the
CBS solution will be
printed in that area

3. Print quality demonstration : CBS

PRINTING MODE / PASS

RESOLUTION

SPEED(m²/h)

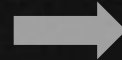
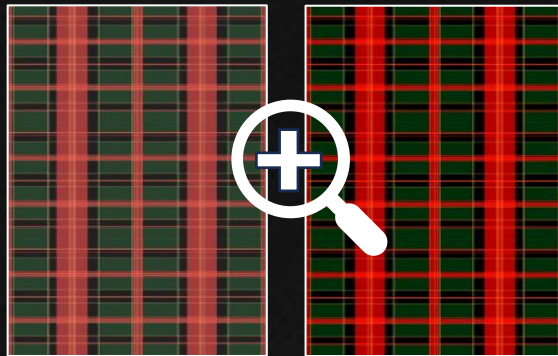
FABRIC TYPE

4 PASS

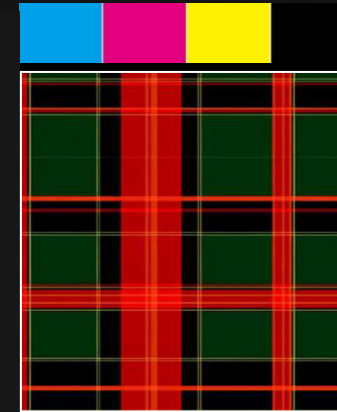
600 x 1200 dpi

42

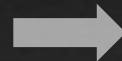
WOVEN (COTTON 40s)



None coated fabric
without CBS



None coated fabric
with CBS



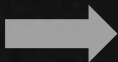
Excellent performance in fine-detail
and deep-color printing

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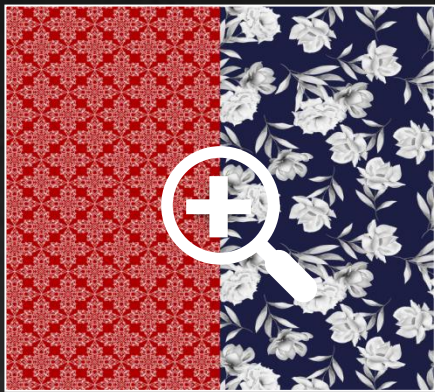
DIRECT TO TEXTILE PRINTER WITH CBS

3. Print quality demonstration : CBS

PRINTING MODE / PASS	RESOLUTION	SPEED(m ² /h)	FABRIC TYPE
4 PASS	600 x 1200 dpi	42	OXFORD



Excellent print quality for dark colors and gradients



Excellent print quality for fine details
and grayscale gradients

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4. Ink consumption of OMNI SERIES : 1

Rip S/W	Media	Resolution	Image Size	Ink Consumption
Ergosoft 17	WOVEN(40 COUNT COTTON)	600 x 1200dpi 4Pass	1,000mm x 1,000mm	2.94ml

LIGHT COLOR



1,000mm x 1,000mm

6 Color Ink (C,M,Y,K,SC,GR) + CBS

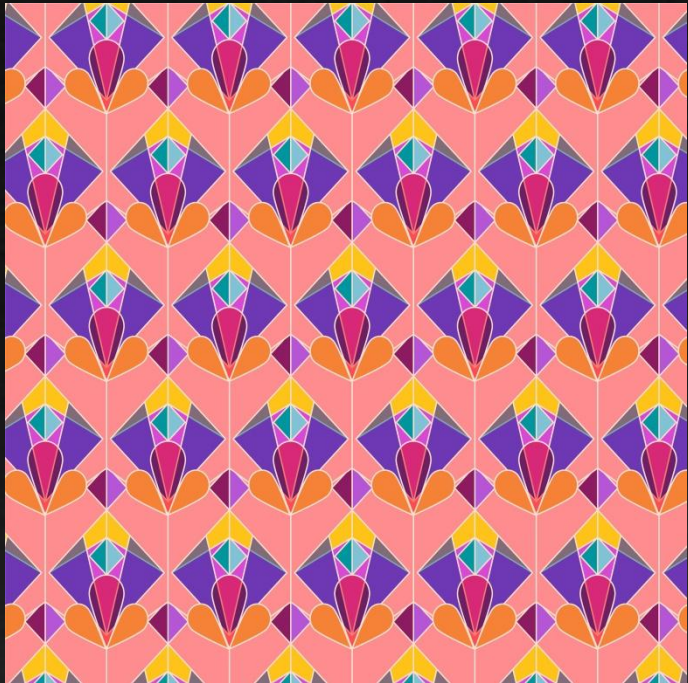
Resource	Summation
Media	100.01 c m
Ink	2.94 ml
Printing Time	0:04:59

Resource	Summation
Cyan (C)	0.45ml
Magenta (M)	0.56 ml
Yellow (Y)	0.94ml
Black (K)	0.42ml
Orange/Red (R)	0.01 ml
Green (G)	0.00 ml
CBS	0.56 ml

4. Ink consumption of OMNI SERIES : 2

Rip S/W	Media	Resolution	Image Size	Ink Consumption
Ergosoft 17	WOVEN(40 COUNT COTTON)	600 x 1200dpi 4Pass	1,000mm x 1,000mm	10,97 ml

MEDIUM COLOR



1,000mm x 1,000mm

6 Color Ink (C,M,Y,K,SC,GR) + CBS

Resource	Summation
Media	100.01 c m
Ink	10.97ml
Printing Time	0:02:00

Resource	Summation
Cyan (C)	0.82 ml
Magenta (M)	3.19 ml
Yellow (Y)	2.13 ml
Black (K)	0.10 ml
Orange/Red (R)	1.80 ml
Green (G)	0.12 ml
CBS	2.81 ml

4. Ink consumption of OMNI SERIES : 3

Rip S/W	Media	Resolution	Image Size	Ink Consumption
Ergosoft 17	WOVEN(40 COUNT COTTON)	600 x 1200dpi 4Pass	1,000mm x 1,000mm	25.75 ml

DEEP COLOR



1,000mm x 1,000mm

6 Color Ink (C,M,Y,K,SC,GR) + CBS

Resource	Summation
Media	100.01 c m
Ink	25.57 ml
Printing Time	0:03:34

Resource	Summation
Cyan (C)	5.95ml
Magenta (M)	3.08ml
Yellow (Y)	2.00ml
Black (K)	6.86ml
Orange/Red (R)	1.28ml
Green (G)	0.00ml
CBS	6.41ml

5. Reduce time and resource investment on precoating procedure

- Limited supply on precoating fabrics in some countries
- Precoating procedure requires huge investment on facility and human resources
- Optimize production efficiency by minimizing the number of production steps.

■ Traditional Precoating Procedure



■ Printing process that utilizes CBS to reduce time and cost



6. Limitations of pre-treated fabrics

■ Avoid expiration of pretreated fabrics

- Normal Expiry date of pretreated fabrics is about 6months
- It can be different depending on the type of fabrics or type of precoat liquid, But should be aware of limitation of storage period considering that coating procedure is kind of chemical reaction.

■ Guarantee stability of coating quality

- Mishandling of precoated fabrics including storage in wrong environment easily causes the defect on printing quality in terms of color brightness and fastness.
- Traditional precoat procedure can result in different coating quality as per each coating production batch due to many side factors such as precoat receipts and precoat machines and more.



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7. Improved fastness



Pre coated fabric

Print with pigment ink

Calender or HeatMan
(Fixation Process
(150°, 3min))



Non coated fabric

Print with pigment ink + CBS

Calender or HeatMan
(Fixation Process
(150°, 3min))

Test Item	Test Result			
	#1	#2	#3	#4
COLOR FASTNESS TO LIGHT(GRADE) ISO 105-B02: 2014 XENON ARC LAMP. BLUE WOOL REFERENCE	OVER 4	OVER 4	OVER 4	OVER 4
COLOR FASTNESS TO WASHING(GRADE) ISD 105-Co6 : 2010 (A2S, (40 2) C. ECE(B))				
SELF STAINING				
COLOR CHANGE	4-5	4-5	4-5	4-5
COLOR STAINING - ACETATE	4-5	4-5	4-5	4-5
COLOR STAINING - COTTON	4-5	4-5	4-5	4-5
COLOR STAINING - NYLON	4-5	4-5	4-5	4-5
COLOR STAINING - POLYESTER	4-5	4-5	4-5	4-5
COLOR STAINING - ACRYLIC	4-5	4-5	4-5	4-5
COLOR STAINING - WOOL	4-5	4-5	4-5	4-5
DRY	4	3-4	3-4	4-5
WET	2	3	3	3-4

Test Item	Test Result			
	#1	#2	#3	#4
COLOR FASTNESS TO LIGHT(GRADE) ISO 105-B02: 2014 XENON ARC LAMP. BLUE WOOL REFERENCE	OVER 4 OVER 4	OVER 4	OVER 4	
COLOR FASTNESS TO WASHING(GRADE) ISD 105-Co6 : 2010 (A2S, (40 2) C. ECE(B))				
SELF STAINING	4-5	4-5	4-5	4-5
COLOR CHANGE	4-5	4-5	4-5	4-5
COLOR STAINING - ACETATE	4-5	4-5	4-5	4-5
COLOR STAINING - COTTON	4-5	4-5	4-5	4-5
COLOR STAINING - NYLON	4-5	4-5	4-5	4-5
COLOR STAINING - POLYESTER	4-5	4-5	4-5	4-5
COLOR STAINING - ACRYLIC	4-5	4-5	4-5	4-5
COLOR STAINING - WOOL	4-5	4-5	4-5	4-5
DRY	4 - 5	4	4	4-5
WET	3	3 - 4	3 - 4	4

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8. Advantages of PIGMENT Ink

- **Rich colors and high-quality output**

The biggest advantage of PIGMENT Ink is that it can achieve high-quality output by implementing vivid and rich colors.

- **Excellent color reproducibility:**

It covers a wide color range to obtain results close to actual colors. In particular, it accurately expresses subtle color differences such as skin tones and natural landscapes to implement realistic images.

It has less color fading due to light, so the colors remain vivid for a long time. It is resistant to water and does not smudge or blur.

- **Suitable for various media:**

It is suitable for printing on various media such as cotton, linen, wool, poly, viscose, polycotton and other blended fabrics.



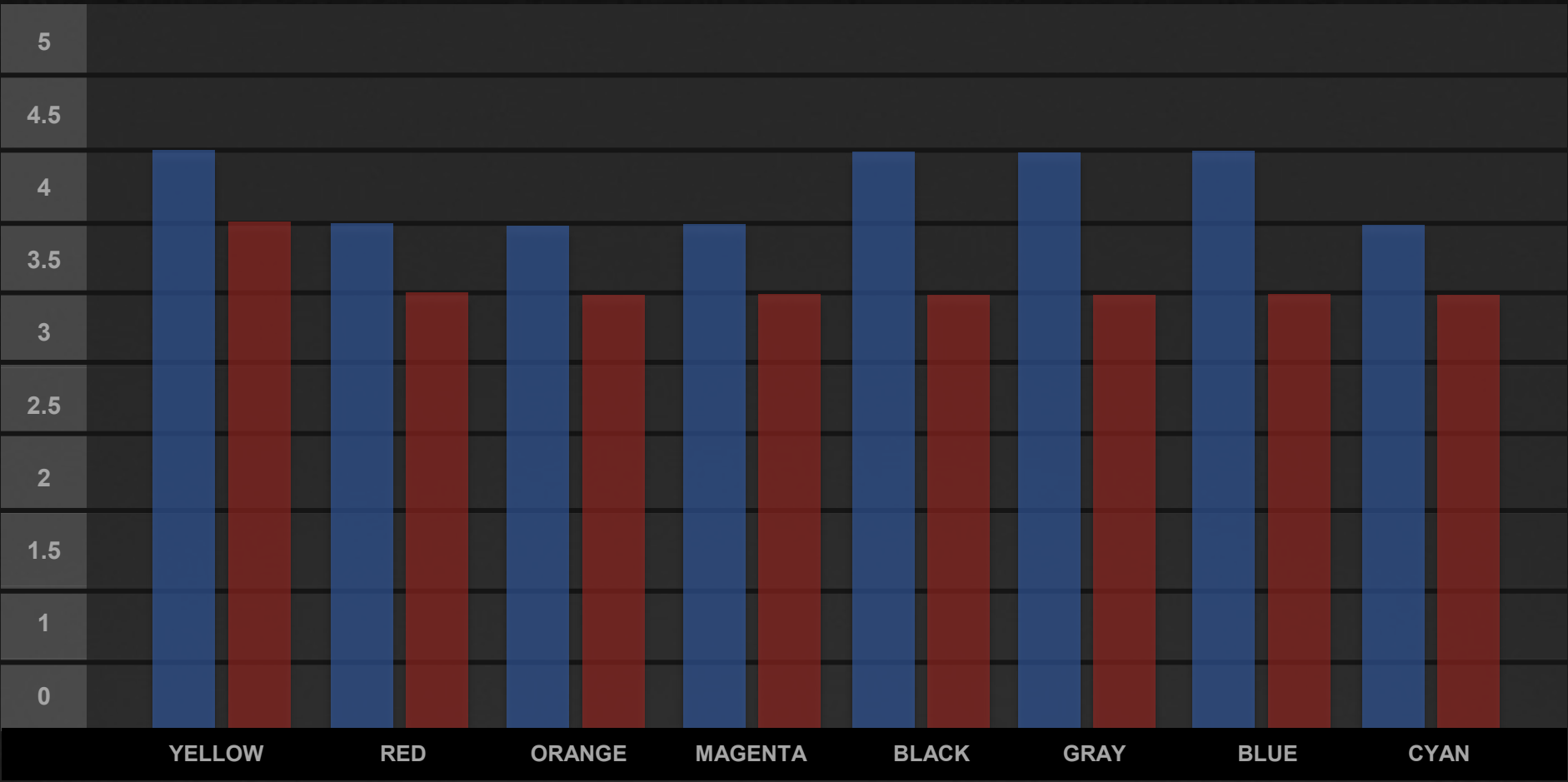
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9. Color fastness to rubbing : **PIGMENT Ink**

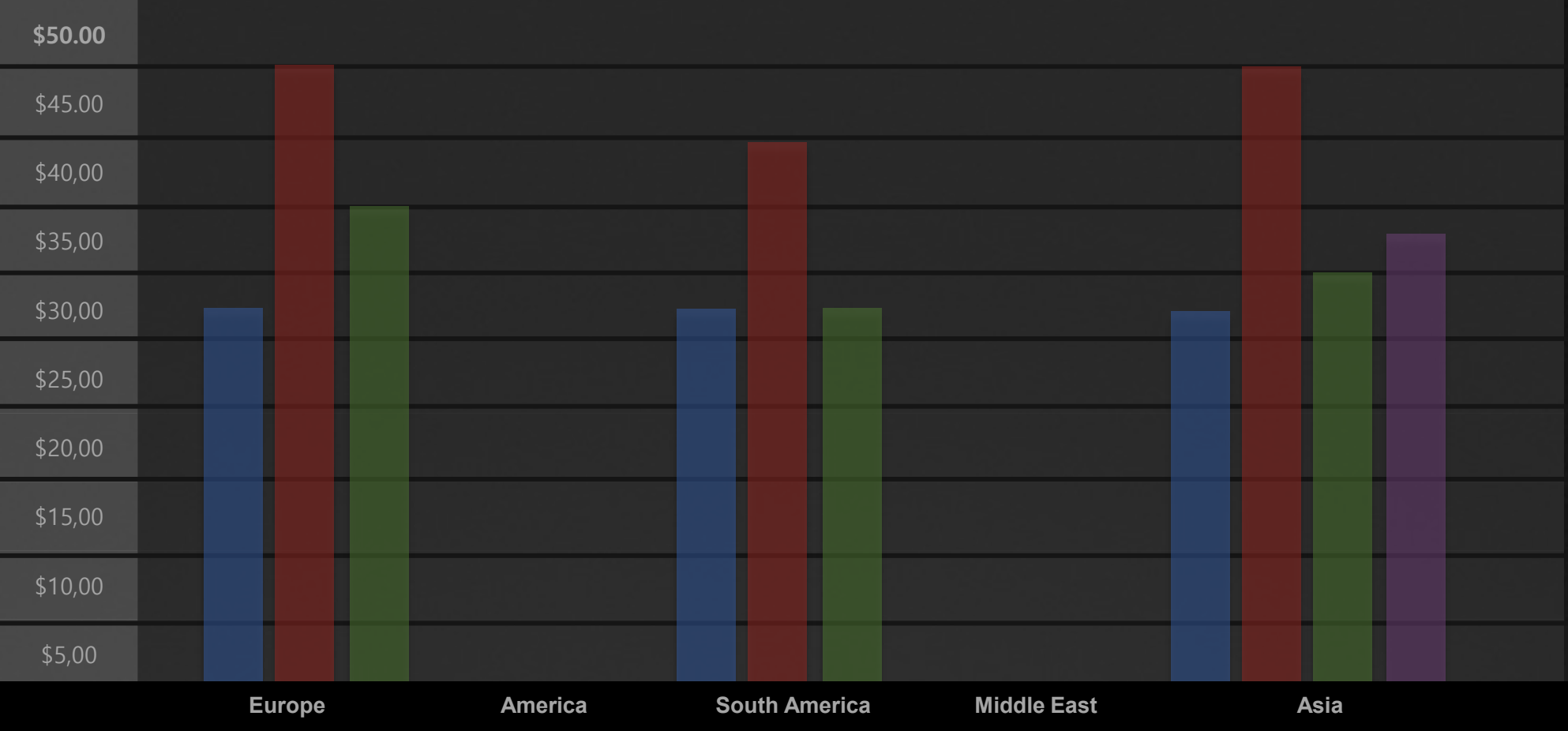
F495(DGI pigment ink) Pigment Ink has passed the SGS test, REACH SVHC test, and obtained the ECO-PASSPORT (environmental protection pass) from the SWISS OEKO-TEX organization

■ DRY
■ WET



10. Compare **PIGMENT INK** price

- DGI
- Made in Europe
- Made in China
- Made in Turkiye



11. TELEIOS OMNI PRO : Specification



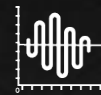
70m²/hr



6+2CBS



1830mm



Dedicated waveform



Role to role feeding system

Printing	Ink	Printing Speed
Print Head : Ricoh, 5 Heads	Pigment : Yellow, Magenta, Cyan, Black + Lc, Lm, Sc, Gr	600 X 600dpi 2pass 70m ² /h
Ink Type : Pigment	Ink Capacity : 5L	600 X 1200dpi 4pass 42m ² /h
Number of Color : 6 + CBS		600 X 2400dpi 6pass 23m ² /h
Max Printing Resolution : 600 x 2400dpi		
Max Printing Width : 1,830mm		
Printing Mode : Bi-Direction / Uni-Direction		

11. TELEIOS OMNI PRO : Specification

Media	Operational Environment	Others
Media Drive : Roll to Roll Max Media Width : 1,880mm	Temperature Operating: 20°C~25°C	Rip Software : Ergosoft, Caldera, Wasatch
Max Media Load Diameter : 300mm, Weight : 40kg	Humidity Operating: 45~65%	
Max Media Thickness 2mm	Operating 45~65%	
Core Diameter Feeder 300mm, 2~3inch	* Environmental influences can affect print quality .	
Dimensions	Weight	Electricity
Printing Machine 3,720(W) x 1,070(D) x 1,670(H) mm	Printing Machine 700kg	Printing Machine 1.95kW, 1Φ AC 220~240V, 8.85A
Fixation 3,020(W) x 6,35(D) x 830(H) mm	Fixation 500kg	Fixation 9.65 kW, 3Φ AC 380~415V, 14.67A
Dryer 2,475(W) x 625(D) x 750(H) mm	Dryer 150kg	Dryer 5.3kW, 1Φ AC 220~240V, 24A
Fumebuster 620(W) x 650(D) x 1,635(H) mm	Fumebuster 180kg	Fumebuster 4.5kW, 3Φ AC 380~415V, 6.83A

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12. TELEIOS OMNI PRO : Key features



1 UPGRADED DEGASSING SYSTEM

2 RICO GEN 6 HEAD

3 POWERFUL IN-LINE DRYER

4 FUME EXTRACTION UNIT

5 ADVANCED WIPER SYSTEM



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12. TELEIOS OMNI PRO : Key features



UPGRADED DEGASSING SYSTEM

The degassing system improves inability for continuous printing, reduces cleaning time, prevents missing nozzles, and minimizes excessive ink usage.



RICHO GEN6 HEAD

Compared to Ricoh Gen5, the Gen6 print head can achieve a high ink drop ignition frequency of up to 50KHz to meet the demand for high-speed printing.



POWERFUL IN-LINE DRYER

The power capacity of the in-line textile dryer has been increased in order to meet the demands of large-scale production.



FUME EXTRACTION UNIT

The newly designed fume extraction unit efficiently extracts heat and fumes, preventing discoloration caused by fumes and oil inside the dryers.



ADVANCED WIPER SYSTEM

By increasing the number of wipers, the advanced wiping system significantly reduces head cleaning time and maintains optimal head performance.



HIGH-CAPACITY INK TANKS

The ink system, which has a capacity of 5L, has been designed to facilitate effortless and convenient ink refilling, even during printing.

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13. ARTRIX OMNI PRO : Specification



92 m²/hr



6+2CBS



1830mm



Dedicated
waveform



Belt feeding
system

Printing

Print Head : Ricoh, 10 Heads

Ink Type : Pigment

Number of Colour : 6 + CBS

Max Printing Resolution
600 X 1,200dpi

Max Printing Width
1,830mm

Printing Mode
Bi-Direction/Uni-Direction

Ink

Pigment : Yellow, Magenta, Cyan, Black,
+ Lc, Lm, Or, Bl, Sc, Gr

Ink Capacity : 5L

Printing Speed

600 X 600dpi 2pass
117m²/h

600 X 900dpi 3pass
86m²/h

600 X 1,200dpi 4pass
65m²/h

OMNI SERIES

DIRECT TO TEXTILE PRINTER WITH CBS

13. ARTRIX OMNI PRO : Specification

Media	Operational Environment	Others
Media Drive Adhesive Belt Conveyor System	Temperature Operating: 20°C~25°C	Rip Software Ergosoft, Caldera, Wasatch
Belt Washing Automatic	Humidity Operating: 45~65%	
Max Media Width 1,880mm	* Environmental influences can affect print quality .	
Max Media Load Diameter : 320mm, Weight : 40kg Diameter : 320mm, Weight : 100kg *Option (Rubber Band Shaft)		
Max Media Thickness 2mm		
Core Diameter Feeder 320mm, 2~3inch		
Dimensions	Weight	Electricity
Printing Machine 4,130(W) x 1,700(D) x 1,800(H) mm	Printing Machine 2,800kg	Printing Machine 9.82kW, 3Φ AC 380~415V, 14.92A
Dryer (6heats) 2,475(W) x 625(D) x 750(H) mm	Dryer (6heats) 1,470kg	Dryer (6heats) 7.85kW, 3Φ AC 380~415V, 11.91A

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14. ARTRIX OMNI PRO : Key features

1 SMART PRESS ROLER



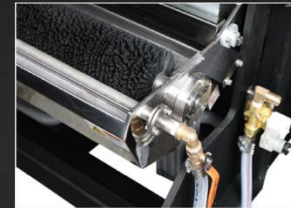
2 RICOH GEN 6 HEAD



3 POWERFUL IN-LINE DRYER



4 USER FRIENDLY CLEANING MACHINE



7 DEGASSING SYSTEM



6 MULTI PURPOSE MEDIA FEEDING SYSTEM



5 METAL ENCODER SENSOR



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14. ARTRIX OMNI PRO : Key features



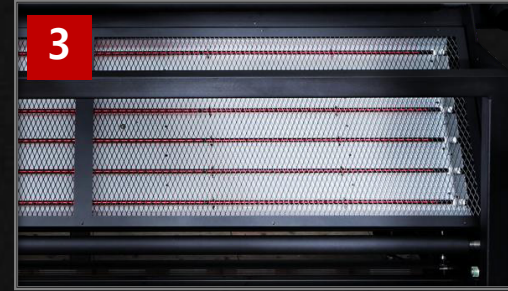
SMART FABRIC PRESS ROLLER

The smart fabric press roller finely regulates pressure in order to ensure stable printing and prevent distortion of the media.



RICOH GEN6 HEAD

Compared to Ricoh Gen5, the Gen6 print head can achieve a high ink drop ignition frequency of up to 50KHz to meet the demand for high-speed printing.



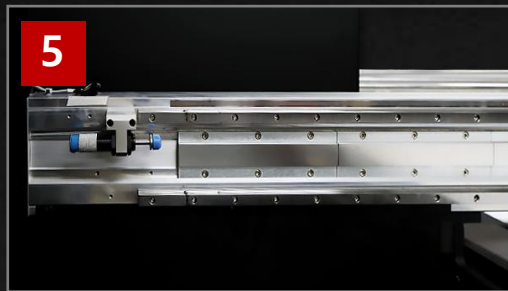
POWERFUL IN-LINE DRYER

The In-line dryer is equipped with six infrared lamps, making it more powerful and explicitly designed to efficiently dry even the thickest fabrics at high speeds.



ADVANCED BELT WASHING UNIT

Equipped with a powerful brush and dryer, the advanced belt washing unit enhances the long-lasting tackiness of the glue.



LINEAR MOTOR AND METAL ENCODER SCALE

The linear motor and metal encoder scale ensure high-precision printing, while also maintaining low operational and maintenance costs.



HIGHLY VERSATILE FABRIC FEEDING SYSTEM

The feeding system provides edge positioning control to ensure perfect feeding. Additionally, it incorporates a pneumatic clutch to prevent distortion of the media.



UPGRADED DEGASSING SYSTEM

The degassing system improves runability for continuous printing, reduces cleaning time, prevents missing nozzles, and minimizes excessive ink usage.

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15. In-line fixation



Simplified Production Process and Increased Efficiency

One-Stop Process

Eliminates the need to remove the printed fabric and transfer it to a separate heat press, thereby **reducing the number of operational steps**.

Maximized Production Speed

Since the heat fixation occurs immediately after printing, the **overall production time is shortened**, leading to faster turnaround times. This is particularly crucial in **high-volume production** environments.



Consistent Quality Maintenance

Tension Control

Fabric tension is precisely controlled within the single, integrated system of the printer and fixation unit.

Minimizes the risk of fabric **stretching, wrinkling, or distortion** during conveyance, ensuring stable print registration and fixation quality.

Immediate Dye Fixation

Dyes are fixed immediately after printing, **reducing the risk of quality degradation** such as color migration or smearing.



Space and Manpower Efficiency

Space Saving

Eliminates the requirement for a separate large heat press, allowing for **efficient utilization of the workspace**.

Manpower Reduction

An operator is not needed to transfer the fabric, enabling **automated Roll-to-Roll system** operation and reducing labor costs.

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16. Application for OMNI SERIES

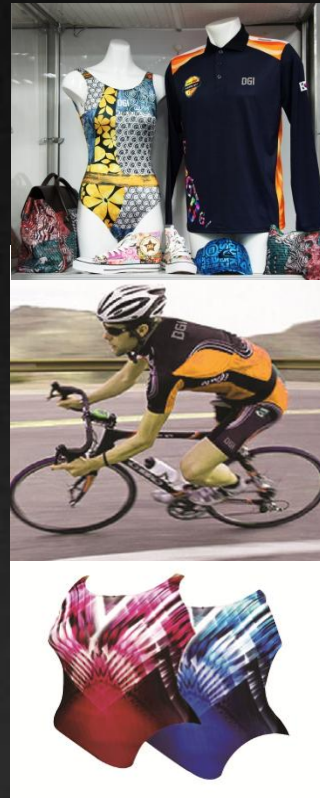
Banner & Pos Graphics	Blueback	Fashion	Flag	Frontlite & Backlite Graphics	Home Textile	Industrial Sublimation	Sportswear	Sun Protection
✓		✓			✓			✓

Disperse – Home textile	Graphic Pigment	Reactive	Sublimation	Textile Pigment
				✓

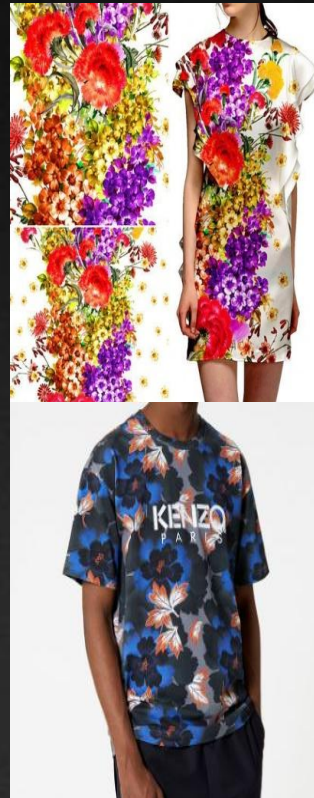
Home textile



Sport wear



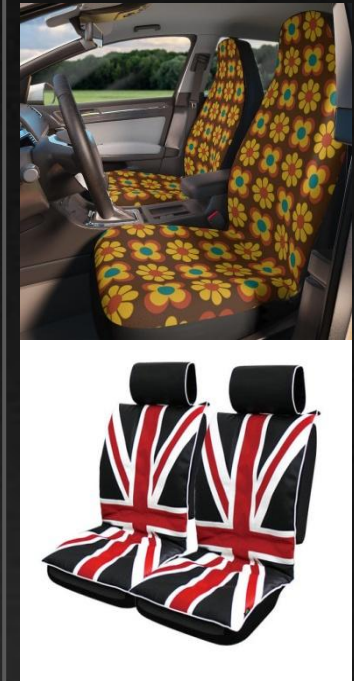
Fashion



Waterproof equipment



Fabric seat cover



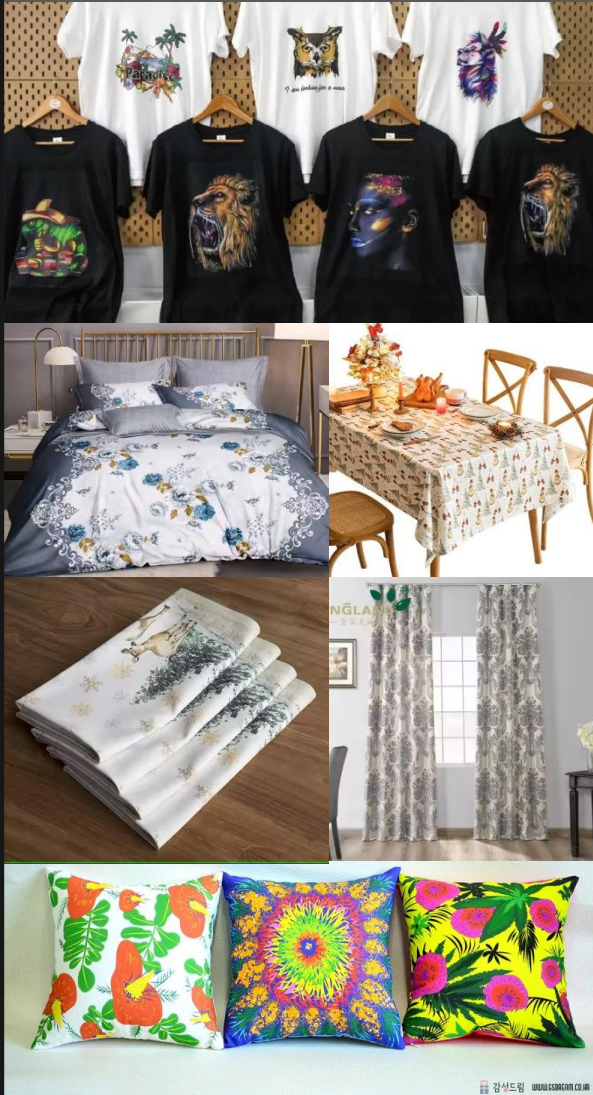
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17. Materials available for Omni SERIES

- Omni series can be printed on various fabrics such as cotton, rayon, polyester, and leather.

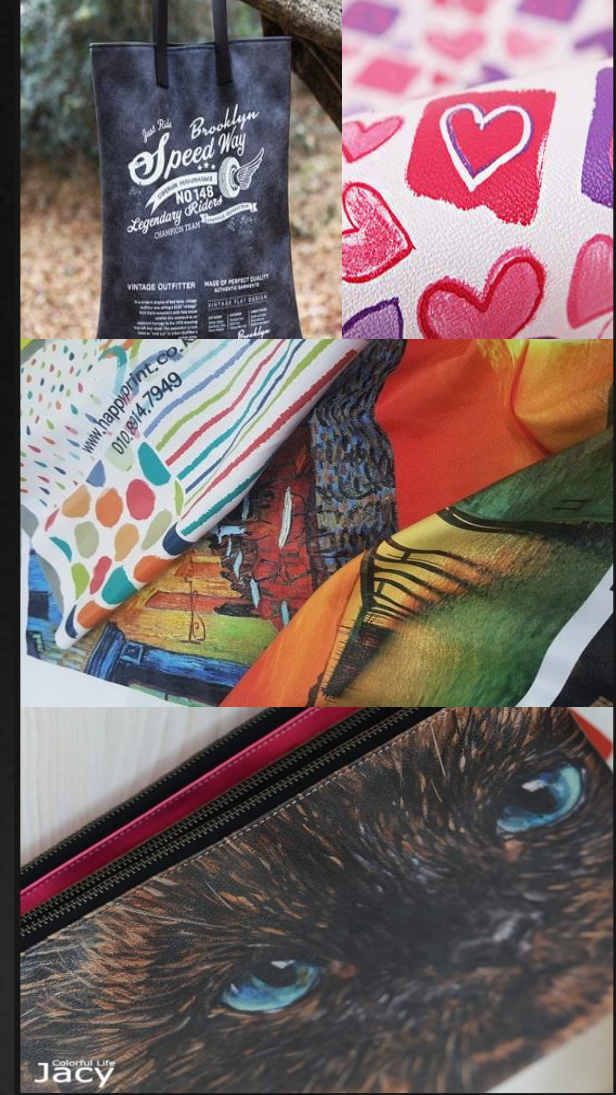
COTTON



POLYESTER



LEATHER



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18. OMNI Series sales performance

- Sold and Installed
- Markets with Strong Demand



COMPANY	DESCRIPTION	Q'TY	COUNTRY	CONTINENT
I-SUB LIMITED - U.K.(G)	TELEIOS Omni Pro	1	UK	Europe
GIFFIN GRAPHICS(G)	TELEIOS Omni Pro	1	UAE	Middle East
TOTEM GROUP LTD(G)	TELEIOS Omni Pro	1	Bulgaria	Europe
FORTUNA KOMERS D.O.O.(G)	TELEIOS Omni Pro	1	Croatia (Hrvatska)	Europe
Print System (G)	TELEIOS Omni Pro	1	KOREA	ASIA
I-SUB LIMITED - U.K.(G)	TELEIOS Omni Pro	1	UK	Europe
MARABU SCANDINAVIA AB(G)	TELEIOS Omni Pro	1	Sweden	Europe
ARDIUM(G)	TELEIOS Omni Pro	1	KOREA	ASIA
SPANDEX, S.R.O.(G)	Artrix Omni Pro(740TX/V OP)	1	Slovakia	Europe

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DGI and d.gen collaborate on pigment processes

Inkjet printer manufacturer DGI is exhibiting at ITMA 2023 following the recent acquisition of its Korean counterpart d.gen.

Both DGI and d.gen are leading companies in the digital textile printer market, and over the years they have developed a diverse range of printing technologies.

DGI says the relationship between the two companies will transition from competition to collaboration. d.gen has strengths in the pigment and soft signage markets, while DGI holds a high share of the high-speed direct and transfer equipment sector. d.gen has a competitive sales network in Europe, while DGI has a strong foothold in the United States, Middle East and Southeast Asia.

Both brands are now based in DGI's existing headquarters in Yangju City, Korea. The DGI and d.gen names will also remain unchanged and existing business relationships will be maintained.

DGI is showcasing its APOLLON direct-to-textile printer in Hall 7. The printer is being presented using pigment inks which DGI recognises as a high growth segment of the industry.

This is because the inks don't require fabric pre-treatments which removes energy and water intensive steps from the printing processes.

DGI said APOLLON is a premium product that enables precise high-speed productivity and enhanced printing stability. It also improves user convenience and offers a combination of high-speed and high-quality production.

The machine is equipped with 16 Kyocera print heads and achieves a top speed of 335sqm/h. It also utilises a magnetic linear motor system to ensure high-speed precision. The implementation of linear motors and scales increases productivity and mechanical precision. It especially enhances print quality when compared with belt-type systems.

APOLLON is also equipped with a collision sensor which prevents costly print head damage, a wrinkle detection sensor to mitigate print head scraping and a carriage dust discharge service to remove dust from the print carriage.

DGI said a high-capacity ink supply system for high-speed production is another advantage of this equipment. It can print up to eight colours and has an ink capacity of 10 litres per colour.

There is also an optional pigment dedicated dryer, which is a compact, high-speed hot-air drying system that can control temperatures up to 120°C.

d.gen

Despite the acquisition, d.gen is still developing technologies for the digital textile printing industry and arrives at ITMA 2023 to showcase its new pre-treatment Color Boosting Solution (CBS).

Pre-treatments are commonly applied using industrial coating machines but with CBS the pre-treatment is jetted directly onto the fabric during the fabric printing process.

The CBS liquid is both colourless and odourless and will be applied before the inks are jetted. CBS can be applied again after the inks to further enhance the print quality.

The technology has been designed with pigment printing in mind and saved cost and time, according to d.gen.

CBS is compatible with d.gen's OMNI series, which includes ATRIX OMNI PRO, TELEIOS OMNI PRO and TELEIOS GRANDE OMNI.

To learn more about these solutions visit Hall 7, Booth A201 (DGI) and Hall 5, Booth D301 (d.gen).

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BOOTH #
ITMA 2023 Hall 5-A203

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The above data will be verified from various dyeing mills condition and facility. It will only serve as reference.

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Teleios Omni Pro

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Information

All-in-One Direct to Textile Printer with New Technology. With Color Boosting Solution, pre-treatment of fabric is not required and with In-line Fixation, you can reduce tremendous time and additional jobs.

DGI

DGI/d.gen
12-830
DGI is a leading digital textile printers manufacturer from South Korea. Having two renowned brands, DGI and d-gen, it is growing rapidly in the global market.

DGI's TELEIOS OMNI PRO was featured on the main page of the Fespa 2025 exhibition website.

DGI's OMNI Series was featured in the ITMA 2023 exhibition on-line magazine.

20. ROI

Teleios Omni Pro		
Speed : 4pass, 42sqm/h		
Duty ratio : 50%		
Operation : 8h/day		
Ink : DGI Ink(F495)		
Operation rate(8h/day)	Contribution Margin/M	Expected Payback Period
60%	\$4,237	approx. 24Mon
75%	\$5,296	approx. 19Mon
90%	\$6,355	approx. 16Mon
100%	\$7,061	approx. 14Mon

Artrix Omni Pro		
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Duty ratio : 50%		
Operation : 8h/day		
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100%	\$7,061	approx. 12Mon

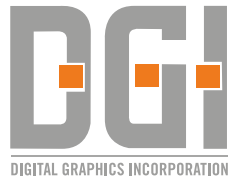
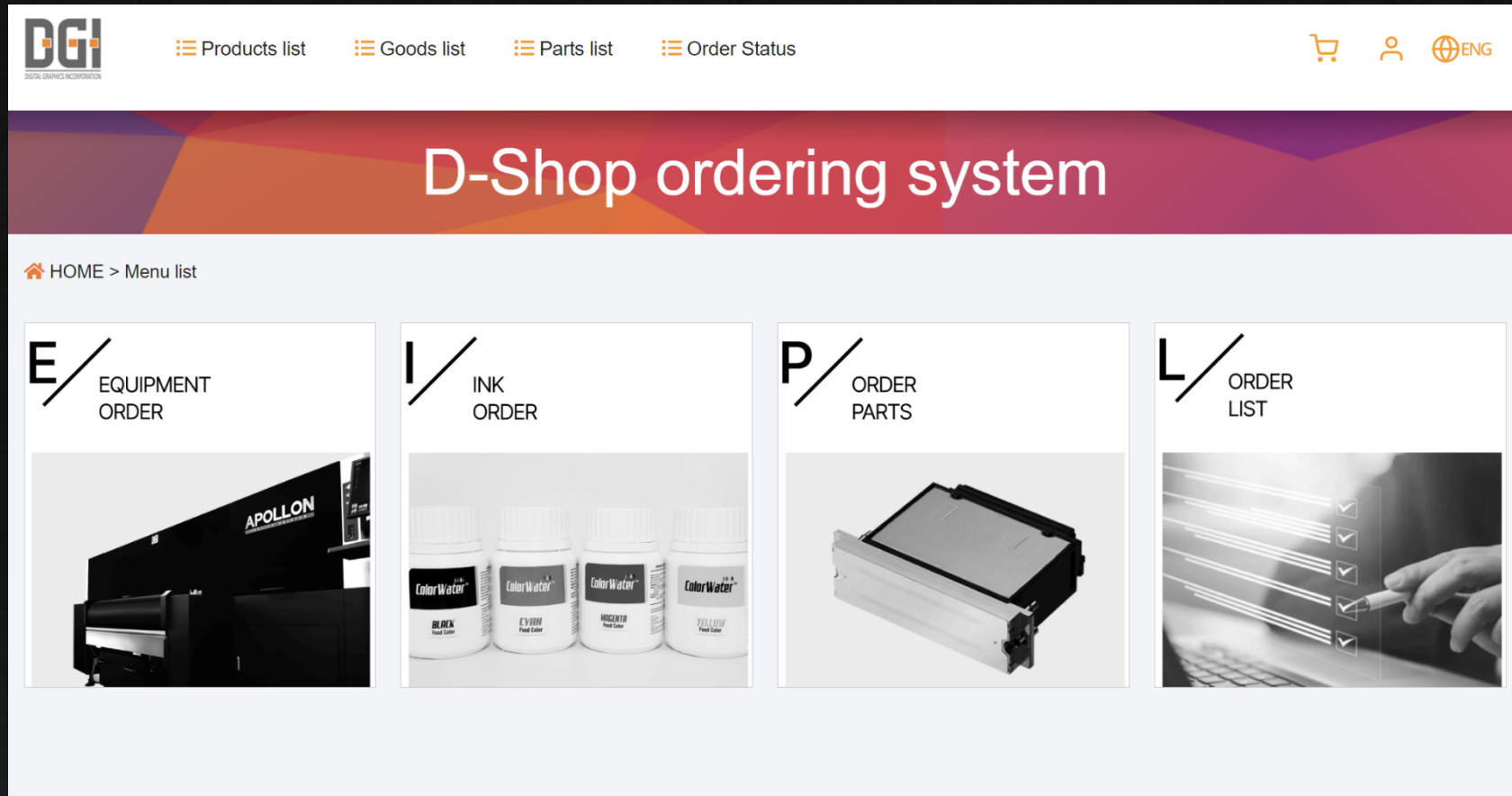
21. Advantages over competitors

	Compared to competitor Kornit	Compared to competitor Epson	Compared to competitor Atexco
Omni Series' Strengths	Ricoh Gen6 printhead shows superior ink color expression than Kornit head.	Omni Series is excellent price-performance ratio than Epson product.	We provide excellent services, including our D-shop and monitoring app



22. User friendly

- Fast customer service and Easy and accurate parts ordering



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OMNI SERIES
DIRECT TO TEXTILE PRINTER WITH CBS